

## MODULARIS Uro Plus

**SP**

### Upgrade Instructions

Upgrade of shock wave system LLSH 140 (C plus)

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## Units affected

All LIHOSTAR MODULARIS systems can be retrofit with the shock wave head LLSH140 (C plus)

## Reason for the upgrade

The shock wave head LLSH 140 features an increased penetration depth.

## Prerequisites

- Software version as of VA00J
- New focus phantom

## Special tools / documents

Service Instructions	SPL1-130.061.01...
Shock Wave Pressure and Position Control	SPL2-120.074.01...
Shock Wave Pressure Test Unit	30 95 408 J1008
Adapter for C- head	98 17 347 J1008

## Order information

The upgrade kit is available.

**11 58 018 Upgrade kit (material number)**

## Contents of the upgrade kit

The upgrade kit **11 58 018** contains the following parts:

Item	Quantity	Material no.	Name
1	1	70 41 358	Shock wave head LLSH 140
2	1	47 78 754	Adjustment adapter complete
3	1	55 31 558	Software VA00J
4	1		Upgrade instructions
5	2		Operating instructions

Tab. 1

## Work steps

**NOTE**

**Only the general work process for the upgrade is described. The detailed work steps are described in the corresponding chapters of the Service Instructions.**

- Move the support arm into the horizontal position.
- Remove the unit cover.
- Empty the cooling circuit and the coupling circuit.
- Remove the shock wave head cover and adjustment adapter. This adjustment adapter must not be used with the shock wave head LLSH 140.
- Remove shock wave head including coupling bellows.
- Install the new shock wave head.
- Install the new coupling bellows. Due to its increased penetration depth, the coupling bellows for the shock wave head LLSH 140 has one additional fold.
- Install the adjustment adapter supplied.
- Remove the EMC cover from the circuit board D3.
- On circuit board D3 set DIP switches S1.1 to ON and S1.2 to OFF. The DIP switches are located above the service switch S2.
- Reinstall the EMC cover for circuit board D3.
- Switch the system on.
- Execute download for host software.
- Fill the cooling circuit and coupling circuit. Watch out for any leaking connections and repair them if necessary.
- Check the isocenter.
- Replace the covers.
- Perform the system function test.

## Final check

- Perform the pressure measurement according to instructions SPL2-120.074.01....

## Customer information

The operating instructions supplied with the system must be handed over to the customer.

## Changes to previous versions

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